



CLCC 2022

Session Objectives



Session #1: Establishing a Working Relationship with your Organization's Management Team, the C-Suite Level of Instruction: Intermediate

- Describe why proactive advocacy within your organization's Management and C-Suite leaders is beneficial for both the laboratory and the broader organization.
- Understand what is important to your organization's leaders and adapt your strategies to be in alignment.
- Demonstrate how your advocacy with the C-Suite and other healthcare leaders impacts the staff in your laboratories and the performance of your organization.

Session #2: "Pleased to Meet Me! Genes, Germs, and the Curious Forces That Make Us Who We Are" Level of Instruction: Basic

- Describe "hidden" biological factors that drive human personality and behavior.
- Discuss how epigenetics and the microbiome interplay with genetics to influence physical and psychological traits.
- Describe how this knowledge may translate into new treatment modalities for undesirable behaviors that lead to public health issues.

Session #3: Leadership Development and Succession Planning Level of Instruction: Intermediate

- Describe how investing in employee development, training, continuing education and mentoring can prove beneficial in retaining staff.
- Explain the difference between the replacement process and succession planning, and the advantages of the succession planning process.
- Describe the steps in the succession planning process and how the investment in future leader dialogue benefits an organization.

Session #4: How Quality Control (really) works Level of Instruction: Basic

- Demonstrate how the QC chart mean and SD impact QC effectiveness.
- Estimate the number of runs to first QC reject if a method fails.
- Discuss how the acceptable number of patients exposed to risk drives QC frequency.

Session #5: Best Practices in Urine and Blood Collections Level of Instruction: Intermediate

- Identify methods to obtain quality samples and minimize sources of error.
- Identify optimal collection equipment to obtain high-quality samples.
- Identify best handling techniques to preserve sample quality.

Session #6: Strategy and Adaptions: Implementation of Rapid Testing Programs (POCT)

Level of Instruction: Intermediate

- Examine various pandemic-related healthcare challenges and limitations that forced the laboratory to adapt.
- Describe strategies to creatively maintain quality healthcare and optimize available resources.
- Describe the downstream impact of rapid respiratory testing on patient and clinical workflow, staff productivity, and infection control.
- Share operational best practices and key learnings from the trenches to help implement rapid testing programs.

Session #7: Blood Bank Serology vs Molecular Testing with Case Studies

Level of Instruction: Intermediate

- Discuss one advantage of red cell genotyping to identify antigen-negative blood donors.
- Describe the impact to the blood supply when providing D+ CEK-matched blood for patients with hemoglobinopathies.
- Understand how licensed serological and molecular typing reagents can lead to the discovery of variant blood group antigens.

Session #8: Latent Parasitic Infections (Toxoplasma, Cryptosporidium, and Malaria)

Level of Instruction: Basic

- Explain the life cycle, key symptoms, and methods to diagnose infections with apicomplexan parasites *Cryptosporidium spp*, *Plasmodium spp*, *Toxoplasma gondii*.
- Describe how to prevent and treat infection from apicomplexan parasites.
- Explain the challenges that microbial latency poses to successful treatment and describe the experimental approaches under study to subvert parasite latency.

Session #9: Blood Collection Best Practices

Level of Instruction: Intermediate

- Examine how blood collection has been affected on a global scale from covid-19 and what challenges the laboratory has experienced because of the pandemic.
- Discuss factors to consider in the evaluation and implementation of tubes.
- Identify three of the most common pre-analytic errors that are often falsely attributed to evacuated tubes: hemolysis, QNS, contamination.

Session #10: Bridging the Gap: Getting Clinical and POCT Staff on the Same Page

Level of Instruction: Intermediate

- Describe clinical indications for use of POCT.
- Describe clinical indications that discourage use of POCT.
- Discuss how Clinical and POCT staff need to work together respectfully to provide the best care for patients.

Session #11: Diabetes in the Clinical Laboratory

Level of Instruction: Intermediate

- Explain why A1c is a valuable biomarker for diabetes diagnosis and management.
- Describe why the frequency of A1c testing helps patients better manage their diabetes.
- Identify other diabetes biomarkers and why/how they are used for patient management.

Session #12: *Candida auris*: A Growing Threat to Public Health

Level of Instruction: Basic

- Describe the physiological properties, virulence factors, and antifungal resistance mechanisms of the fungal pathogen *Candida auris*.
- Summarize the transmission, epidemiology, colonization, and disease manifestations of *Candida auris*.
- Identify the challenges and benefits of each laboratory method available to detect *Candida auris* colonization.

Session #13: HIPAA, Compliance, Confidentiality Training for the Clinical Laboratory

Level of Instruction: Basic

- Describe the Basics of HIPAA, its intention and why it is necessary in healthcare and the laboratory.
- Explain and define types of Protected Health Information.
- Describe HIPAA violations and the importance of compliance.

Session #14: Mile High Mysteries, Heme Cases Studies

Level of Instruction: Intermediate

- To Identify and recognize RBC Morphological Abnormalities in whole blood
- To Describe and recognize WBC Morphological Abnormalities in whole blood
- To recognize and explain abnormalities in body fluids

Session #15: Diagnostic Stewardship Interventions That Make a Difference

Level of Instruction: Intermediate

- Describe the purpose and function of diagnostic stewardship.
- Explain the role of the clinical laboratory in diagnostic stewardship.
- List examples of diagnostic stewardship interventions in the clinical laboratory.

Session #16: Risk management: Beyond quality control; Better than Six Sigma

Level of Instruction: Intermediate

- Explain how risk management differs from statistical QC and Six Sigma.
- Select medical allowable error limits and acceptable risk limits for sample tests.
- Correlate analytical accuracy and precision to the number and cost of errors.

Session #17: Those Sticky, Tricky Platelets – Solving the Puzzle of Platelet Clumping.

Level of Instruction: Intermediate

- List various platelet counting methodologies.
- Recognize and discuss spurious vs. abnormal platelet results and how to troubleshoot them.
- Describe various methods used to resolve EDTA induced pseudothrombocytopenia.

Session #18: AST and Safety at Core of Micro Check list Changes

Level of Instruction: Intermediate

- List the Safety requirements and the CAP Checklists
- Discuss especially the Safety in Microbiology.
- Describe Quick Tips on Continued Safety During COVID-19.

Session #19: Patient Blood Management: The Psychology of Decision Making.

Level of Instruction: Intermediate

- Discuss the evidence and recommendations that make up the basis for platelet transfusion guidelines that are commonly used by clinicians.
- Be able to explain how heuristics and cognitive biases contribute to how clinicians make transfusion decisions.
- Learn how to reflect on clinical decision making in order to create more data-driven healthcare.

Session #20: Biomarkers in Alzheimer's Disease

Level of Instruction: Intermediate

- Describe Alzheimer's Disease (AD), it's background; pathophysiology and disease burden.
- Identify the current challenges with AD diagnosis and unmet need.
- Explain the biomarkers in development; the impact on diagnosis and treatment.

Session #21: Pearls and Pitfalls in the Hemostasis Laboratory, a Case Study Approach.

Level of Instruction: Intermediate

- Discuss the guideline-based laboratory testing for Von Willebrand Disease and Antiphospholipid Antibody Syndrome.
- Describe the basic screening work-up for the bleeding patient.
- List the common pitfalls in the interpretation of these panels.

Session #22: Maximize Your Existing Quality Management System to Deliver Greater Value

Level of Instruction: Intermediate

- Recognize a well-written quality management system can help a laboratory achieve tangible benefits.
- Discuss the requirements of a QMS in the CAP Laboratory Accreditation Program
- Explain how occurrence management and root cause analysis can improve operations.

Session #23: Career Options for Medical Laboratory Professionals, A Panel of Speakers Describe their Career Paths Level of Instruction: Basic

- Compare and contrast the career paths presented.
- Explain the importance of each career opportunity for the lab profession.
- State 3 tips for advancing your career.

Session #24: The Crossroads of Art and Science – The Challenges of Bacterial Culture Analysis in Today’s Clinical Microbiology Laboratory Level of Instruction: Intermediate

- Discuss how clinical microbiology has changed and evolved in the last 35 years.
- Explain how MALDI-TOF presents challenges to Staffing and Training.
- MALDI Wizardry: With great knowledge comes great responsibility. Describe how to create smarter microbiologists and clinicians.

Session #25: Blood Bank Case Studies: It’s not always Immunoematology Level of Instruction: Intermediate

- List testing that can be done to better identify causes of platelet refractoriness Identify key features of normal/reactive cells.
- Discuss test results that can help guide transfusion support for coagulopathy patients.
- Describe the criteria that qualify patients for granulocyte transfusions.

Session #26: Urine Drug Testing in the Opioid Epidemic Level of Instruction: Basic

- Be able to identify synthetic and natural opioids.
- Understand the differences in opioid metabolites and how they correlate to different therapeutic and/or recreational drugs.
- Describe uro-toxicology testing methods available.

Session #27: Resume Writing and Interview Skills Level of Instruction: Basic

- At the conclusion of the presentation, participants will be able to describe how to write a cover letter and resume.
- At the conclusion of the presentation, participants will be able prepare, rehearse, explore, plan, interview and follow up for interviews.
- At the conclusion of the presentation, participants will be able to list the differences between phone, zoom and in person interviews.

CLCC 2022 Poster Session Level of Instruction: Basic

- Describe a medical condition and the lab testing that aids in the diagnosis, treatment or maintenance of the condition.
- Identify a critical literature review of personal interest.
- List 1 thing that you learned from the Poster Session.

